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SCHOOL OF  
HUMANITIES AND SCIENCES



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# Gendered Innovations

in Science,  
Health & Medicine,  
and Engineering

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What is **Gendered Innovations**?

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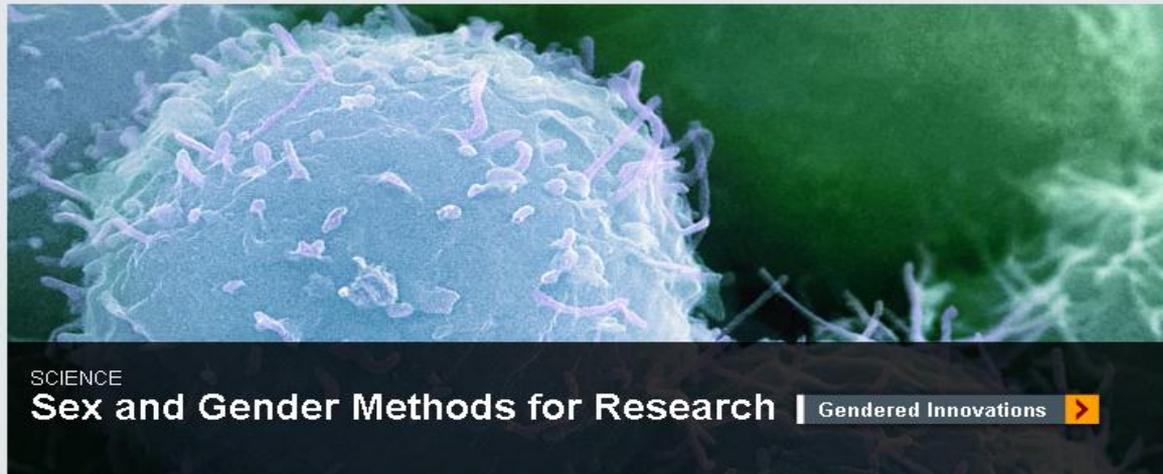
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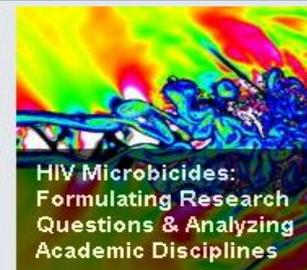
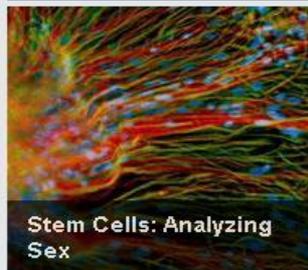


SCIENCE

HEALTH & MEDICINE

ENGINEERING

FEATURED CASE STUDIES



Why Gendered Innovations?

**“Gendered Innovations” employs methods of sex and gender analysis to create new knowledge.**



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# Business Case

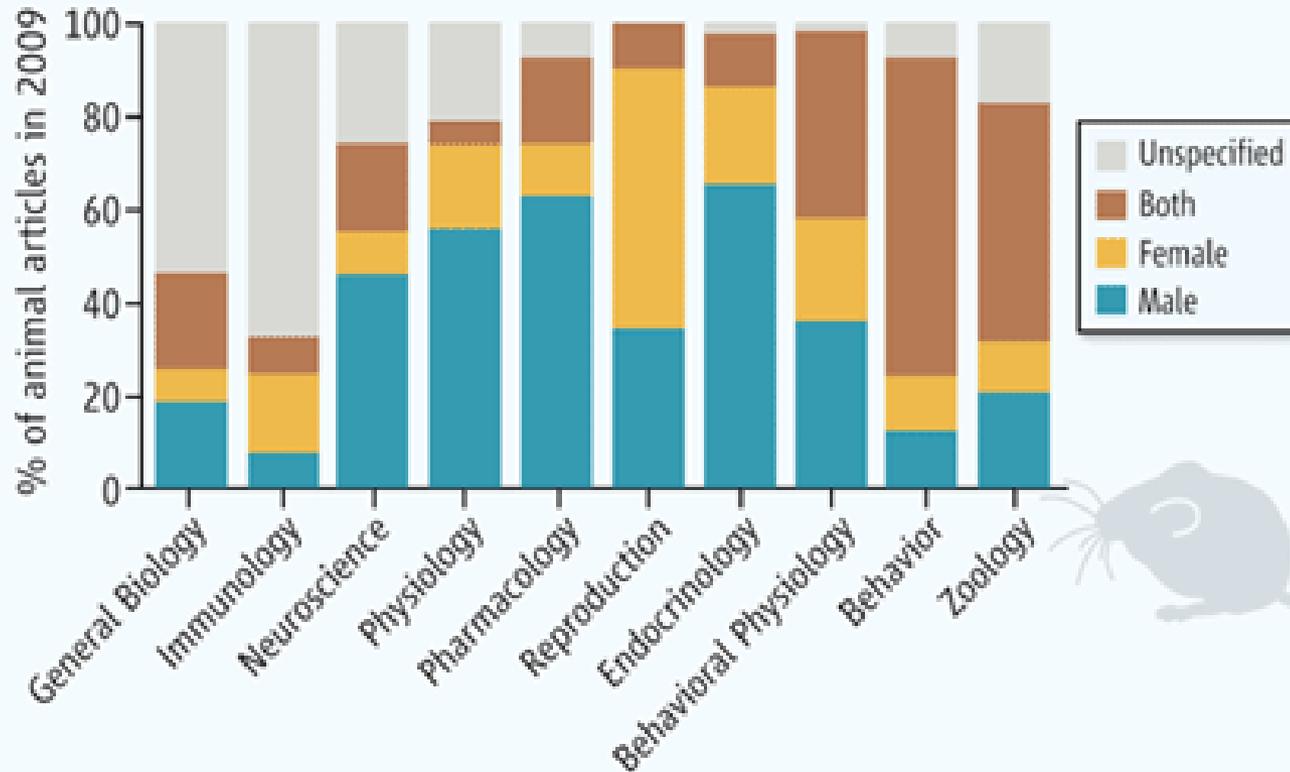
## Sex and gender bias in research

- is expensive in terms of lives and costs.
- limits the excellence of research, and hence the potential benefits to society.

# Most research is done in males



## SURVEYING SEX BIAS



CREDIT: ADAPTED FROM ANNALIESE K. BEERY AND IRVING ZUCKER. Cited in Wald, C. & Wu, C. (2010). Of Mice and Women: The Bias in Animal Models. *Science* 327: 1571-1572.

# Business Case—Public Health

- ◎ *Science* (26.3.2010): Between 1997 and 2000, 10 drugs were withdrawn from the U.S. market because of life-threatening health effects—8 of those showed greater severity in women.

# Business Case—Public Safety

- ⦿ Conventional seatbelts do not fit pregnant women properly, and motor vehicle crashes are the leading cause of fetal death related to maternal trauma.

Weiss, H., Songer, T., & Fabio, A. (2001). Fetal Deaths Related to Maternal Injury. *Journal of the American Medical Association*, 286 (15), (15), 1863-1868

# IT'S NOT ENOUGH TO IDENTIFY BIAS

- ✘ We need to DESIGN research correctly from the beginning

# THE WORLD HEALTH ORGANIZATION

- ✘ ...states that “it is not enough simply to ‘add in’ a gender component late in a given project’s development. Research must consider gender from the beginning.”

WHO, What is Gender Mainstreaming?

<http://www.who.int/gender/mainstreaming/en/index.html>

# GENSET CONSENSUS REPORT—JUNE 2010

## UNITED NATIONS RESOLUTIONS—MARCH 2011

Call for:

1. "gender-based analysis ... in science and technology"
2. the integration of a "gender perspective in science and technology curricula"

# Gendered Innovations

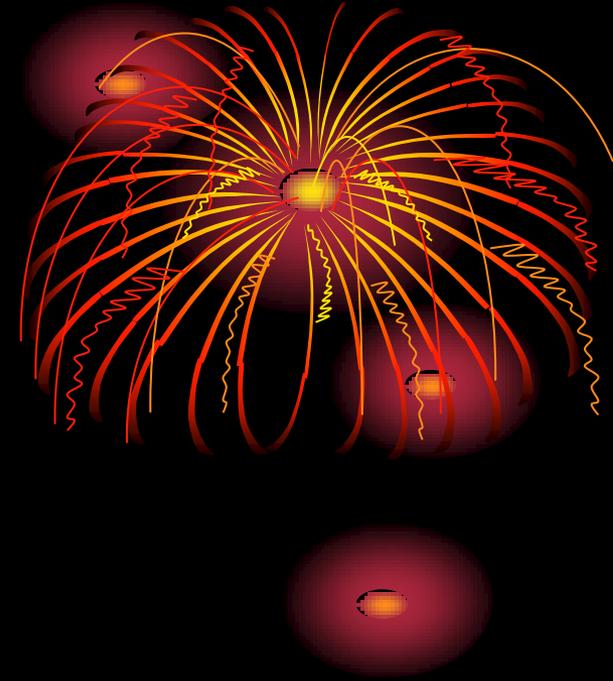


**...employs sex and gender analysis as a *resource* to create new knowledge.**

# Gendered Innovations



- **1. develops METHODS of sex and gender analysis for research and engineering**
- **2. provides CASE STUDIES as concrete examples of how sex and gender analysis leads to innovation**



- **Go to website:  
Genderedinnovations.eu**

**See “What is Gendered Innovations”**

# Gendered Innovations

- ① **Add value to research** by ensuring excellence and quality in outcomes.
- ② **Add value to society** by making research and engineering projects more responsive to social needs.
- ③ **Add value to business** by developing new ideas, patents, and technology.

# Needed: Strategic Plan

- To train current researchers in methods of sex and gender analysis.
- To train the next generation by incorporating sex and gender research into university curricula.